BOOK

ons		Contents	Reference to last Measurement
eadth 5	Depth 6	7	8

Final bill

Recorded on:- 22.9.2016

Work Code:- 006-15-0000042

M. A. R. 57 (Rule 116)

Measurement Book

No. B

Work order No:- BBMP/EE/BTP/w.o/22/2016-2017. Date 30/04/2016

rial No. .....

me of Work .... Improvements to Roads and drains at Aiyappa Layout in ward no-6 Byatarayanapura From Sub division. To

me of Contractor of nature of Agency .... V. CHANDRAPPA, #681, Kothanoor, Bangalore-24

te of commencement of work .... Est Cost Rs. 20.00 lakhs

263816

ate	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	① KSRB 2-1.1: Earth work in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, Culverts, road drains and trenches of pipe line and Cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. Quantity as per pre-measurement are recorded in this MB and page no of: 263884-263887.					259.63m³ 259.29 cum @ Rs. 159.00	41281-17

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(2) KSRB 2-2-1 : Earth work excavation for foundation of buildings, culverts, water supply, Sanitary line and electrical Conduits either in pits or in trenches 1.5m and above in width. in hard soil not exceeding 1.5m. in depth including dressing the bottoom and sides of pits and trenches. Stacking the excavated soil clear froom edges of excavation with lead up to 50m. after breaking of clods Complete as per Specification Quantity as per pre-measurement are recorded in this mb and page no of:- 26388788:- 79.85 m³ @ RS. 288.00					22,996.80	
	(3) Removing B.S. slab of drain and Stacking page no. 25/item						

M. A
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rial No. .....
me of Work ..... Fro
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work	Numb
	2	3
	no. 5.32/ PWD SR 2015-2016 engineer in charge of Quantity as per pre- in this mb and pay	
	(4) Refixing Stone slabs 25/item no. 5.33/ PWD Qua	

OOK

th	Depth 6	Contents 7	Reference to last Measurement 8
			for foundation of buildings, and electri Col Conduits and above in width. in ths including dredging the ches. Stacking the excava vation with lead up to mplete as per Specifi Cation nt are recorded 38788:- 79.85 m³ @RS. 288.00	22,996.80
			Stacking page No. 25/item

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263817

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	No. 5.32/ PWD SR 2015-2016 cleaning per Specifi Cations and directions of the engineer in charge of the work. Quantity as per pre-measurement are recorded in this MB and page No of:- 263888-89:- 829.13 m² @RS. 63.00						52,235.19
	④ Refixing Stone Slabs of drains and pointing in cm (1:3) Page No. 26/item No. 5.33/ PWD SR 2015-2016 etc as per Specifi Cations. Quantity vide item no:- ③ :- 829.13 m² @RS. 78.00						64,672.14

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	⑤ Providing granite slabs of selected quality roughly dressed & fixed in cement mortar (1:6) including fixing curing etc Complete - do - 7.5 Cents This is page no. 28/; Item no. 5.31.1/ PWD SR 2015 - 2016 rates per specifications.						
	Annam Enclave. Layout — 1st Gross:-	2	18.50	1.65	-	61.05	
	10th Gross:-	2	15.00	1.65	-	49.50	
	Site only	2	21.80	1.65	-	71.94	
	1st A Gross:-	2	15.00	1.65	-	49.50	
		2	14.40	1.65	-	47.52	
						276.38 m²	
	@ Rs. 663.00					1,83,239.94	

ial No. .....
me of Work .....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work	Nu
	2	
	⑥ KSRB-4-1.3: Providing and mix on 1:4:8 with opc graded granite metal aggregates @0.57 cum not exceeding 15cm plinth, including Curing Complete as per Quantity as per pre- in this one wood Po	

OOK

h	Depth 6	Contents 7	Reference to last Measurement 8
		quality roughly dressed &	
		cluding fixing curing etc	
		.28/item no. 5.31.1/PWD	
		ft.	
5	-	61.05	
5	-	49.50	
5	-	71.94	
5	-	49.50	
5	-	47.52	
		276.38 m²	1,83,239.94
		@ Rs. 663.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263818

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	⑥ KSRB-4-1.3: Providing and laying in position plain cement concrete of mix of 1:4:8 with opc cement at 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.57 cum machine mixed concrete laid in layers not exceeding 15cms. thick well compacted in foundation and plinth, including cost of all materials, labour, Hire of machinery curing complete as per specifications.						
	Quantity as per pre-measurement are recorded in this MB and Page no of:- 263889-90:-					11.41 m³ @ Rs. 5070.00	57,848.70

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(7) KSRB 5.2.3 Proving and Constructing granite/trap/basalt Rise Stone masonry in foundation with Cement mortar 1:6 Stone hammered dressed in Courses not less than 20cms high, bond Stones at two mts. apart in each Course; including Cost of materials, labour, curing Complete as per Specifications.						
	Side walls:- 2nd Gross:-	2	7.70	0.60	0.45	4.16	
	2nd Gross:-	2	6.40	0.60	0.45	3.46	
	1st 'A' Gross:-	2	6.50	0.60	0.45	3.51	
	Cite	2	6.40	0.60	0.45	3.46	
		2	6.60	0.60	0.45	3.56	

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ate of commencement of work .....

Date	Full description, etc, of work	Num
1	2	
	(8) KSRB 5.3-3 Providing Rise Stone masonry edges of Stones shall Cms high, bond Stones Cost of materials, lab	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	6.50	1.65	0.23	2.47	
		1	6.40	1.65	0.23	2.43	
	Sill	1	6.60	1.65	0.23	2.50	
	only	1	6.40	1.65	0.23	2.43	
						14.80 m³	
						@ Rs. 6100.00	90,280.00
	(13) KSRB 4.9.2: Providing TMT Steel reinforcement for R.C.C work including straightening, cutting, bending, hooking placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members						

ial No. .....
ne of Work .....
ne of Contractor of nature of Agency ..
e of commencement of work .....

te	Full description, etc, of work
	2
	wherever necessary c not be measured -mony Complete as p Quantity as per in this mB a
	(14) KSRB on 400-17 graded Stones including pro

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Depth 6	Contents 7	Reference to last Measurement 8
0.23	2·47	
0.23	2·43	
0.23	2·50	
0.23	2·43	
	14·80 m3	
	@Rs. 6100.00	90,280.00

...nforcement for R.C.C
...g. bending. hooking placing
... wherever required, tying
... to the adjoining members

M. A. R. 57 (Rule 116)
Measurement Book

No. B

...rial No. .....
...me of Work ..... From..... To..... 263823
...me of Contractor of nature of Agency .....
...te of commencement of work .....

...te	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	wherever necessary Complete as per design (laps, hooks and wastage shall not be measured and paid) Cost of materials, labour, Hire of machi... -nery Complete as per Specifications. Quantity as per pre measurement are recorded in this MB and page no of:-263891-92:-1.33 details					@Rs. 69805.00	92840.65
(14)	KSRRB on HDD-17:-Providing, laying Spreading and Compacting graded Stones aggregate to wet mix macadam Specifications including premixing the material with water at one in						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	mechanical mix plant Carriage of mixed material by tipper to site, laying in uniform layers with Paver in Sub base Course on well prepared surface and Compacting with vibratory roller to achieve the desired density Completed As Per Specifications.						
	Quantity as per pre-measurement recorded in this MB and page No of: 263893-94: 348.40 m³					596809.20	
	CRS. 1713.00						
(16)	KSRRB 500-4: Providing and applying primmer Coat from 7.5 to 9.8 Kg and 9.8 to 12.2 kg per 10 Sqmm for surfaces of low						

ial No. .....
me of Work .....
me of Contractor of nature of Agency .....
te of commencement of work .....

ite	Full description, etc, of work	Nu
	2	
	and medium penetration bitumen -low bake with cut b with diesel at 10 kg per Spray Set (excluding of all materials, la -fications.	
	Quantity as per pre in this MB and	

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Depth 6	Contents 7	Reference to last Measurement 8
onized method of tipper with Paver in Rub bole rod Compacting with ed density Completed		
tore recorded 3-94:-348.40 m³ @Rs. 1713.00		596809.20
rimmer Cost from 7.5 m for Surfaces of low		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

rial No. .....
me of Work ..... From..... To..... 263824
me of Contractor of nature of Agency .....
te of commencement of work .....

te	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	and medium penetrity respectively over prepared Surface of granu bitumen mixed -lon bole with Cut back grc-70 on any other boiler fitted with with diesel at 10 kg per 10 Sqm heated in bitumen Spray Set (excluding clearing of road Surface) including Cost of all materials, labour Hire of machinery & Complete as per Spe -fication. Quantity as per pre-measurement recorded in this MB and page no of:-263895-96:-1742.00 m² @Rs. 70.00						121940.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(16) KSRRII ಗ 500-18: Providing and laying Semi dense bituminous Concrete 25mm Thick with 100-120 TPH batch type Hmp producing an average output of 75 Tonnes per hour using Crushed aggregates of specified grading. Premixed with bituminous binder at 4.5 to 5% of mix and filter, transporting the hot mix to work site, laying with hydrostatic Paver finisher with Screed Control to the required grade, level and alignment etc as per Specification.						
	1st Work :-						
	(W-E) M	1	15.00	$\frac{5.55+6.20}{2}$	0.025	2.20	
		1	15.00	$\frac{6.20+5.30}{2}$	0.025	2.16	

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th	Depth 6	Contents 7	Reference to last Measurement 8
			ying Semi dense bituminous
			TPH batch type Hmp
			75 Tonnes per hour
			ecified grading. premixed
			5% of mix sand filter,
			site. laying with a hydra
			Control to the required
			s per Specification.
	6.20	0.025 2.20	
	30	0.025 2.16	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263825

al No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
e of commencement of work .....

te	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	(M/s Thomas stone)	1	15.00	$\frac{5.30+5.30}{2}$	0.025	1.99	
		1	15.00	$\frac{5.30+5.50}{2}$	0.025	2.03	
		1	15.00	$\frac{5.50+5.00}{2}$	0.025	1.97	
		1	15.00	$\frac{5.00+5.10}{2}$	0.025	1.89	
		1	15.00	$\frac{5.10+5.10}{2}$	0.025	1.91	
		1	15.00	$\frac{5.10+5.30}{2}$	0.025	1.95	
		1	15.00	$\frac{5.30+5.20}{2}$	0.025	1.97	
		1	18.50	$\frac{5.20+5.80}{2}$	0.025	2.54	

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MEASUREMENT BOOT

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Checked. 29/9/16						
	10th Floor:- (S-N)	1	15.00	$\frac{5.30+5.00}{2}$	0.025	1.93	
		1	21.80	$\frac{5.00+6.00}{2}$	0.025	3.00	
	8th 'A' Floor:- (E-W)	1	15.00	$\frac{5.40+5.40}{2}$	0.025	2.03	
		1	15.00	$\frac{5.40+5.50}{2}$	0.025	2.04	
		1	15.00	$\frac{5.50+5.10}{2}$	0.025	1.99	
	Cafe on	1	15.00	$\frac{5.10+5.10}{2}$	0.025	1.91	
		1	15.00	$\frac{5.10+4.85}{2}$	0.025	1.87	
		1	15.00	$\frac{4.85+5.06}{2}$	0.025	1.86	

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me of Work ..... From
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work	Number
	2	3
	Cafe on	1 1 1 1 1

OOK

th	Depth 6	Contents 7	Reference to last Measurement 8
5.00	0.025	1.93	
6.00	0.025	3.00	
5.40	0.025	2.03	
5.50	0.025	2.04	
5.10	0.025	1.99	
5.10	0.025	1.91	
14.85	0.025	1.87	
5.06	0.025	1.86	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263826

ial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
e of commencement of work .....

te	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Cft on	1	15.00	$\frac{5.05+5.40}{2}$	0.025	1.96	
		1	15.00	$\frac{5.40+5.25}{2}$	0.025	2.00	
		1	15.00	$\frac{5.25+5.20}{2}$	0.025	1.96	
		1	14.40	$\frac{5.20+5.30}{2}$	0.025	1.93	
		1	25.70	$\frac{5.00+5.30}{2}$	0.025	3.31	
						43.55 cm³	4,03,447.20
						@Rs. 9264.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(17) Lead for disposal of debries shall be payable at carriage rate by mechanical means including loading and unloading. from 0.00 to 2.00 Km extra per specification.						
	Quantity vide item no: (1)+(2) : 339.48 m³						21726.72
	@RS. 64.00						
	Total bill Amount RS: 1972916.00						

AE 22/9/2016 Site Mandla 28/9/16

CERTIFICATE:-

(1) Certified that the above work done is Satisfactorily Complete

(2) Certified that the Agency has cleared the debries from the work Spot.

AE 22/9/2016 Mandla 28/9/2016

M. A
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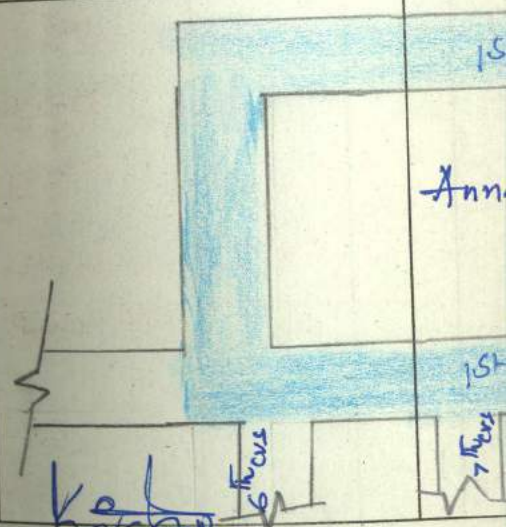
rial No. .....
me of Work ..... Fro
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work	Numbe
	2	3



AE 22/9/2016

BOOK

s		Contents	Reference to last Measurement
dth	Depth 6	7	8
		payable at carriage rate	
		ng loading and unload	
		es per Specification.	
		mt: ① + ② : 339.48 m³	21726.72
		@ Rs. 64.00	
		ll Amount Rs: 1972916.00	
		e is Satisfactorily Complete	
		eared the debries from	
		Mandal	
		28/9/2016	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263827

al No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
e of commencement of work .....

te	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	1st 2' cross						
	Annam Enclave Layout						
	1st cross						
	6 Nos						
	7 Nos						
	8 Nos						
	9 Nos						
	10 Nos.						
	Kandi AE 28/9/2016						
	Mandal 28/9/16						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Audited & Admitted for Rs 1972900/- and Rs 1822867/- and Rs 150033/- by Divisional Accounts Officer BBMP		T. Pay Voh Roj CWC CBF			26730 - 19730 10680 - 7896 4000 - 2968 2673 - 1973 200342 - 150033	

Third and Part Bill

Work order No:- BBMP/EE/B

rial No. ..... Providing Interno

me of Work ..... roads to Bellaha

me of Contractor of nature of Agency .....

te of commencement of work .....

ate	Full description, etc, of work
	2
1).	Providing, supplying, Geomembrane includ etc. complete as pe complete as per in charge of the